

# A Method of Presenting & Teaching Abstract Concepts by Animating Abstract Symbols

## Abstract

5 Methods of dynamically presenting transformations of expressions comprising symbols representing abstract concepts are described. Methods are presented of animating these symbols to exhibit the transformations and, optionally, link these animations with the corresponding animations of a concrete pictorial model. Additional methods are described linking these animations with computer controlled and even computer calculated explanations of the process in both text and sound.

10 The purpose is to present the rules for transforming abstract representations (for example equations) in ways that are much easier to understand and remember. Such animations are the modern dynamic "illustrations" of these transformations.

15 Methods are described of computer controlled sequencing of the animations with corresponding animations of a concrete analogical model.